



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182

denr.sd.gov

February 16, 2016

Tracy Johnson
Tracy Johnson Feedlot
19707 465th Avenue
Bruce, SD 57220

Re: Tracy Johnson Feedlot Underground Irrigation Pipeline
As-built Plans and Specifications Review

Dear Mr. Johnson:

The Department of Environment and Natural Resources received the pipe leakage test and a Notice of Completion for the underground irrigation pipeline on September 19, 2013, one copy of the revised as-built plans which identify the installed piping and valve configuration at the pivot point and the north irrigation well on August 25, 2014, and updated nutrient management plan information on January 12, 2016 and February 10, 2016. The underground irrigation pipeline is located in the North $\frac{1}{2}$ of the Southwest $\frac{1}{4}$ of Section 1, Township 112 North, Range 51 West in Brookings County, South Dakota.

Your permitted manure management system is for an existing open lot feeding a maximum of 1,500-head of beef cattle. The manure management system consists of piping, diversion dikes or channels, two sediment basins, one holding pond, and 16.7 acres of drainage area. The upper and lower sediment basins are both designed for 122 days of solids storage capacity. The holding pond meets the requirements of the general permit and has at least 365 days of liquid storage capacity.

The underground irrigation pipeline was approved with the original plans and specifications for your manure management system on May 24, 2012. The as-built changes consist of:

- The underground irrigation pipeline ties into two wells near the pivot riser;
- A combination air release/check valve and a hand operated valve were installed between each well and the riser at the pivot;
- The type of piping installed was changed from 8-inch PVC to 6-inch Class 200 PVC pipe; and
- The pivot will be used to apply process wastewater to *Fields 1 and 13*.

We have reviewed and hereby approve the changes shown on the as-built plans. Two copies of the as-built plans are being kept for our files. Please replace the appropriate pages in your plans and

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specifications booklet with the revised pages enclosed with this letter and add any additional pages enclosed with this letter into your plans and specifications booklet.

The department also received information to add four new fields to your approved Phosphorus-based Nutrient Management Plan (NMP). In the June 21, 2013, letter from the department, you were informed that *Field 7* could not be approved until a background phosphorus soil test was submitted to the department for review and approval. The department received the requested background phosphorus soil test for *Field 7*.

Your existing phosphorus-based NMP is part of your application for coverage under the *General Water Pollution Control Permit for Concentrated Animal Feeding Operations* (general permit).

Fields Being Added to NMP						
Line #	Field or Tract #	County	Legal Description	Available Acres	Soil Sampling Requirements	
					0-2 feet	Additional
7	Schultz North	Brookings	NE ¼, Section 11, T112N, R51W	56.0	Yes	No
11	Raven Capital W.	Hamlin	SE ¼, Section 35, T113N, R51W	105.8	Yes	Yes
12	Raven Capital E.	Hamlin	SW ¼, Section 36, T113N, R51W	63.6	Yes	Yes
13	Jefferis Pivot	Brookings	NW ¼, Section 1, T112N, R51W	46.0	Yes	Yes
14	Jefferis Pivot	Brookings	NW ¼, Section 1, T112N, R51W	32.0	Yes	Yes

We are approving the modifications and are including *Fields 7, 11, 12, 13, and 14* in your approved phosphorus-based NMP. **Please put one copy of the approved field information in Appendix D of your copy of the permit.** You are required to comply with the terms and conditions of your permit.

You are also responsible for contacting the local planning and zoning office in the county where manure application will take place to determine if there are any local ordinances or requirements with which you need to comply.

All of the new fields will require soil tests from zero to two feet prior to manure application.

Fields 11, 12, 13, and 14 are also identified as being located over a shallow aquifer and have additional soil testing requirements. For these fields, soil tests are required from 0 to 2 feet **and** 2 to 4 feet prior to manure application.

For fields that require additional soil testing from 2 to 4 feet, you have the option to either conduct the initial 0 to 2-foot and the 2 to 4-foot soil test prior to land application of manure or the alternative option to conduct the initial 0 to 2-foot soil test prior to manure application and a second 0 to 2-foot


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soil test within four weeks after harvesting the crop. Please refer to section 1.4.4.4., beginning on page 29 of the general permit, for the annual nutrient management requirements. **You must notify the department in writing if you plan to use the post-harvest soil sampling option.**

Two copies of the field information are being retained for our files. The attached field list is an updated listing of the fields that are currently approved for manure or wastewater application. The attached map shows the location of each field. Please review this information and notify the department if any of the information is incorrect. If the enclosed field list and map are correct, please place them in your NMP.

If you have any questions regarding the content of this letter, please feel free to contact Troy Roth, Feedlot Permit Program at (605) 773-3351. Thank you for your cooperation.

Sincerely,



Kent R. Woodmansey, PE, Engineering Manager
Feedlot Permit Program

cc: Justin Bonnema, Agricultural Engineer, PE, USDA-NRCS, Brookings, SD
Kevin Banken, Centrol Crop Consulting, Inc., 333 Marian Ave, Brookings, SD 57006
Luke Muller, F.D.A.L.G., Watertown, SD
Brookings County Commissioners
Hamlin County Comissioners